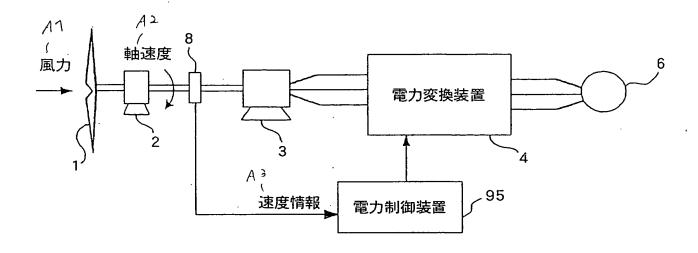
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Fig. 1



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Fig. 2

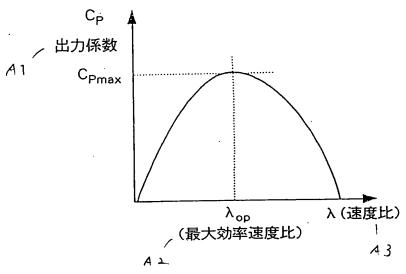
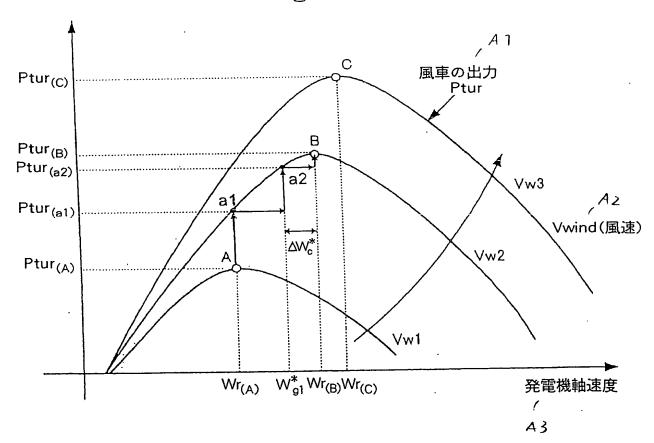
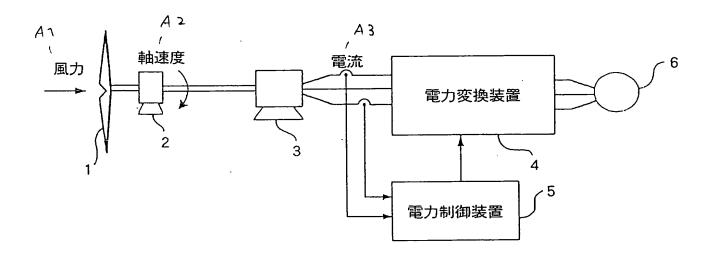


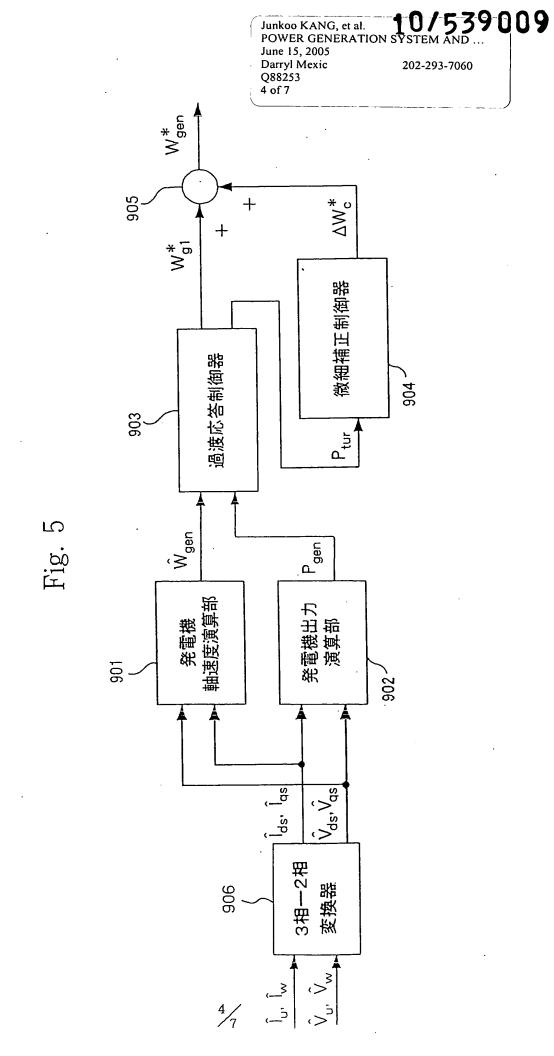
Fig. 3



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Fig. 4





位相検出器

微分器

誘起電圧検出器

Fig. 7 901 502 503 504 ſŴ<sub>gen,</sub>  $\hat{\Phi}_{d}$ ,  $\hat{\Phi}_{q}$  $\mathrm{d}\hat{\theta}_\Phi$  $\hat{ heta}_{\Phi}$ 2 式 (25) Pole dt `A1 回転子磁束検出器 位相検出器 微分器

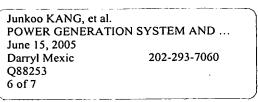


Fig. 8

903

601

602

603

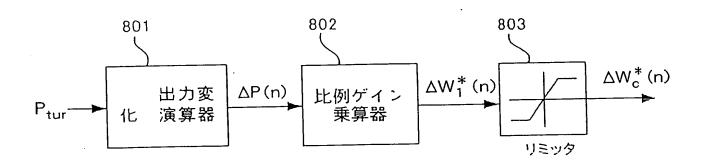
Ftur 最大効率運転 別御器

W\*gen 推定器
制御器

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Fig. 10





[Fig. 1]

4: POWER CONVERTER

95: POWER CONTROLLER

A1: Wind POWER

A2: SHAFT SPEED

A3: SPEED INFORMATION

[Fig. 2]

A1: OUTPUT COEFFICIENT

A2: (MAXIMUM-EFFICIENCY SPEED RATIO)

A3: (SPEED RATIO)

[Fig. 3]

A1: WINDMILL OUTPUT Ptur

A2: Vwind (WIND SPEED)

A3: GENERATOR SHAFT SPEED

[Fig. 4]

4: POWER CONVERTER

5: POWER CONTROLLER

A1: WIND POWER

A2: SHAFT SPEED

A3: CURRENT

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Drawing Legend 1 of 3

[Fig. 5]

901: GENERATOR SHAFT SPEED CALCULATOR

902: GENERATOR OUTPUT CALCULATOR

903: TRANSIENT RESPONSE CONTROLLER

906: THREE-TWO PHASE CONVERTER

[Fig. 6]

402: INDUCED VOLTAGE DETECTOR

403: PHASE DETECTOR

404: DIFFERENTIATOR

A1: EQUATION 21

[Fig. 7]

502: ROTOR MAGNETIC-FLUX DETECTOR

503: PHASE DETECTOR

504: DIFFERENTIATOR

A1: EQUATION 25

[Fig. 8]

601: WINDMILL OUTPUT CALCULATOR

602: WINDMILL TORQUE ESTIMATOR

603: MAXIMUM-EFFICIENCY OPERATION CONTROLLER

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[Fig. 9]

701: WINDMILL TORQUE VARIATION CALCULATOR

702: OUTPUT-COEFFICIENT DIFFERENTIAL EQUATION

CALCULATOR

703: GENERATION RATE INSTRUCTION UNIT

[Fig. 10]

801: OUTPUT VARIATION CALCULATOR

802: PROPORTIONAL GAIN MULTIPLIER

803: LIMITER